

*What is claimed is:*

1. An apparatus for locking a plug for use with a plug and a plug signal receptacle, the apparatus for  
locking a plug comprising:

a. a plug lock rotatably secure about a first selected point, the plug lock rotates about the first  
selected point as the plug enters the plug signal receptacle;

b. a plug lock spring, the plug lock communicating with the plug lock spring such that the plug  
lock spring applies force on the plug lock such that the plug lock returns to a neutral position after the  
plug is fully engaged in the plug signal receptacle;

c. a locking release mechanism, the locking release mechanism rotatably secured about a second  
selected point, the locking release mechanism communicates with the plug lock such that when the  
plug lock rotates about the first selected point the locking release mechanism rotates about the second  
selected point; and

d. a plug lock locking mechanism, the plug locking mechanism communicates with the locking  
release mechanism such that when the locking release mechanism rotates about the second selected  
point the plug locking mechanism secures the plug lock in the neutral position, and the plug lock then  
retains and holds the plug securely in the plug signal.

2. The apparatus for locking a plug of claim 1, wherein the apparatus for locking a plug further  
includes an electromagnet, the electromagnet electromagnetically communicating with the plug lock  
locking mechanism such then when the electromagnet is activated the plug lock no longer retains and  
holds the plug securely in the plug signal receptacle.

3. The apparatus for locking a plug of claim 2, wherein the locking release mechanism is also  
rotatably secure about a third selected point.

4. An apparatus for locking an audio headphone plug for use with a headphone, a headphone plug,  
and an audio signal receptacle, the apparatus for locking an audio headphone plug comprising:

a. a plug lock rotatably secure about a first selected axis, the plug lock rotates about the first  
selected axis as the headphone plug enters the audio signal receptacle;

b. a plug lock spring, the plug lock communicating with the plug lock spring such that the plug lock spring applies force on the plug lock such that the plug lock returns to a neutral position after the headphone plug is fully engaged in the audio signal receptacle, the neutral position being the plug lock substantially perpendicular to the audio signal receptacle;

5 c. a locking release mechanism, the locking release mechanism rotatably secured about a second selected axis, the locking release mechanism communicates with the plug lock such that when the plug lock rotates about the first selected axis the locking release mechanism rotates about the second selected axis; and

10 d. a plug lock locking mechanism, the plug locking mechanism communicates with the locking release mechanism such that when the locking release mechanism rotates about the second selected axis the plug locking mechanism secures the plug lock in the neutral position, and the plug lock then retains and holds the headphone plug securely in the audio signal receptacle;

15 e. an electromagnet, the electromagnet electromagnetically communicating with the plug lock locking mechanism such that when the electromagnet is activated the plug lock no longer retains and holds the headphone plug securely in the audio signal receptacle.

5. The apparatus for locking a plug of claim 4, wherein the locking release mechanism is also rotatably secure about a third selected axis.

20 6. The apparatus for locking a plug of claim 5, wherein the locking release mechanism comprises a plug lock arm, a locking release mechanism arm, a locking release mechanism main member, and a locking release mechanism spring, the plug lock arm and the locking release mechanism arm are pivotally attached to the locking release mechanism main member, the locking release mechanism spring communicating with the locking release mechanism main member and locking release  
25 mechanism arm.

7. An apparatus for locking an audio headphone plug for use with a headphone, a headphone plug, and an audio signal receptacle, the apparatus for locking an audio headphone plug comprising:

30 a. a plug lock rotatably secure about a first selected axis, the plug lock rotates about the first selected axis as the headphone plug enters the audio signal receptacle;

b. a plug lock spring, the plug lock communicating with the plug lock spring such that the plug lock spring applies force on the plug lock such that the plug lock returns to a neutral position after the headphone plug is fully engaged in the audio signal receptacle, the neutral position being the plug lock substantially perpendicular to the audio signal receptacle;

c. a locking release mechanism, the locking release mechanism rotatably secured about a second selected axis and a third selected axis, the locking release mechanism communicates with the plug lock such that when the plug lock rotates about the first selected axis the locking release mechanism rotates about the second selected axis and the third selected axis, the locking release mechanism comprises a plug lock arm, a locking release mechanism arm, a locking release mechanism main member, and a locking release mechanism spring, the plug lock arm and the locking release mechanism arm are pivotally attached to the locking release mechanism main member, the locking release mechanism spring communicating with the locking release mechanism arm; and

d. a plug lock locking mechanism, the plug locking mechanism communicates with the locking release mechanism such that when the locking release mechanism rotates about the second selected axis and the third selected axis the plug locking mechanism secures the plug lock in the neutral position, and the plug lock then retains and holds the headphone plug securely in the audio signal receptacle;

e. an electromagnet, the electromagnet electromagnetically communicating with the plug lock locking mechanism such that when the electromagnet is activated the plug lock no longer retains and holds the headphone plug securely in the audio signal receptacle.

8. The apparatus for locking an audio headphone plug of claim 7, wherein the apparatus for locking an audio headphone plug further comprises at least two plug locks, at least two plug lock springs and at least two locking release mechanisms springs.

9. The apparatus for locking an audio headphone plug of claim 8, wherein the apparatus for locking an audio headphone plug further comprises at least two electromagnets.

10. The apparatus for locking an audio headphone plug of claim 9, wherein the total tensile strength of the locking release mechanism springs equals the tensile strength of plug lock locking mechanism springs.

11. The apparatus for locking an audio headphone plug of claim 10, wherein the total tensile strength of the electromagnets is twice that of plug lock locking mechanism springs.